IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

James Chen

Serial No.:

10/091,144

Customer No.:24961

Confirmation No.:7692

Filed:

March 4, 2002

For:

Of Photoluminescent

Nanoparticles For Photodynamic

Therapy

Art Unit:

1615

Examiner:

Unassigned



TECH CENTER 1600/2

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Because this Supplemental Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the above-captioned application, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. The Forms PTO-1449 (6 pages) and cited references are provided herewith.

The documents listed on the Forms PTO-1449 and supplied herewith are in the English language with the exception of Item AV. Item AV (Japanese Patent No. 53084998) is in the Japanese language and is supplied with a certified English



language translation (Item BH). Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Office the following U.S. applications which are commonly owned and/or have one or more inventors in common with the instant application.

U.S.S.N.	Filing Date	Publication No. or Issue No.	Publication or Issue Date	Docket No.
10/384,895	03/07/03			0044RI
10/385,378	03/07/03			0044BRI
09/592,150	06/12/00	6,624,187	09/23/03	0049
09/801,163	03/07/01			0050
10/351,730	01/23/03	2003-0167033	09/04/03	0052
10/211,784	08/01/02	2002-0198576	12/26/02	0054C
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09/905,501	07/13/01	2002-0087205	07/04/02	0055B
10/317,269	12/10/02	2003-0109813	06/12/03	0055C
10/410,700	04/08/03			0055D
09/905,777	07/13/01	2002-0127230	09/12/02	0057
09/905,405	07/13/01	2003-0018371	01/23/03	0060
09/386,692	08/31/99	2003-0114434	06/19/03	0061
09/760,362	01/12/01			0062
10/607,922	06/27/03			0094
10/613,474	07/02/03			0095
09/150,821	09/11/98	4 F		CHEN0079
10/021,891	12/12/01	2003-0030342	02/13/03	CHEN0145

U.S.S.N. 10/091,144 Chen Supplemental Information Disclosure Statement

Int'l App. No.	Filing Date	Publication No.	Publication Date	Docket No.
PCT/US03/02303	01/23/03			0052PC
PCT/US03/20427	06/27/03			0094PC
PCT/US03/21179	07/02/03			0095PC
03010382.4	05/10/03			CHEN0188
PCT/US02/28149	11/25/02	WO03052793	06/26/03	CHEN0187

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and make them of record in the file history of the above-captioned application.

Respectfully submitted,

HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman Registration No. 33,779

Date: October 2, 2003

Attorney Docket No. 25886-0066B

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FORM PTO-1449	ATTY. DOCKET NO. 25886-0066B	SERIAL NO. 10/091,144	CONFIRM. NO. 7692	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE	APPLICANT Chen, James	CUSTOMER NO. 24961		
STATEMENT	FILING DATE March 4, 2002	GROUP 1615		

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EXAMINER INITIAL	*Ref. Code		D	OCUM	IENT N	NUMB	ER		DATE	NAME	CLASS	SUB CLASS	900 FILING DATE
	А	0	0	1	8	3	7	1	01/23/03	Chen	607	88	07/13/01
	В	0	0	4	4	6	2	3	11/22/01	Chen	606	2	07/20/01
	С	0	0	4	9	2	4	7	04/25/02	Chen	514	410	01/12/01
	D	0	1	0	9	8	1	3	06/12/03	Chen	60	2	12/10/02
	E	0	1	1	4	4	3	4	06/19/03	Chen et al.	514	185	08/31/99
	F	0	1	2	7	2	2	4	09/12/02	Chen	424	130.1	03/04/02
	G	0	1	2	7	2	3	0	09/12/02	Chen	424	178.1	07/13/01
	Н	0	1	9	8	5	7	6	12/26/02	Chen	607	88	12/26/02
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	j	4	8	4	9	2	0	7	07/18/89	Sakata <i>et al</i> .	424	1.1	10/23/86
	К	5	4	9	4	7	9	3	02/27/96	Schindele <i>et al.</i>	435	6	06/14/89
	L	5	5	4	3	5	1	4	08/06/96	Sessler <i>et al.</i>	540	472	04/06/95
	М	5	5	6	5	5	5	2	10/15/96	Magda <i>et al.</i>	534	11	06/07/95
	N	5	5	7	1	1	5	2	11/05/96	Chen et al.	607	92	05/26/95
	0	5	5	7	6	0	1	3	11/19/96	Williams et al.	424	423	03/21/95
	Р	5	5	9	1	8	5	5	01/07/97	Hudkins <i>et al.</i>	546	256	04/24/95
	a	5	5	9	4	1	3	6	01/14/97	Sessier et al.	540	472	05/03/95
	R	5	6	4	3	3	3	4	07/01/97	Eckhouse et al.	607	88	02/07/95
	S	5	6	9	8	8	6	6	12/16/97	Doiron <i>et al.</i>	257	99	05/28/96
	Т	5	7	0	9	6	5	3	01/20/98	Leone	604	20	07/25/96
	U	5	7	7	5	3	3	9	07/07/98	Woodburn et al.	128	898	08/19/97
	V	5	9	1	2	2	5	7	06/15/99	Prasad <i>et al.</i>	514	356	09/05/96

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CONFIRM. NO. FORM PTO-1449 ATTY. DOCKET NO. SERIAL NO. 10/091,144 25886-0066B 7692-**APPLICANT** CUSTOMER NO. LIST OF PATENTS AND PUBLICATIONS FOR Chen, James 24961 APPLICANT'S INFORMATION DISCLOSURE **STATEMENT FILING DATE GROUP** March 4, 2002 1615



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code		DOCUMEN			NUMB	ER		DATE	NAME	CLASS	SUB CLASS	FILING DATE
	w	5	9	5	2	3	2	9	09/14/99	Cincotta et al.	514	224.5	01/23/97
	×	5	9	7	6	1	7	5	11/02/99	Hirano et al.	607	89	06/18/96
	Y	6	0	5	1	2	3	0	04/18/00	Thorpe et al.	424	178.1	06/01/95
	Z	6	0	7	1	9	4	4	06/06/00	Rodgers et al.	514	408	11/12/97
	AA	6	1	0	0	8	9	3	08/08/00	Ensz <i>et al.</i>	345	420	05/23/97
	АВ	6	1	6	5	4	4	0	12/22/00	Esenaliev	424	1.11	07/09/98
	AC	6	1	8	3	4	4	4	02/06/01	Glines et al.	604	187	05/16/98
	AD	6	2	8	1	6	1	1	08/28/01	Chen et al.	310	171	04/11/00
	AE	6	4	1	6	5	3	1	07/09/02	Chen	607	89	06/24/98
	AF	6	5	2	0	6	6	9	02/18/03	Chen et al.	362	545	06/19/00
	AG	6	5	3	4	0	4	0	03/18/03	Pandey et al.	424	9.362	12/18/00
	АН	6	5	5	4	8	5	3	04/29/03	Chen	607	88	07/20/01
	Al	6	5	8	0	2	2	8	06/17/03	Chen <i>et al.</i>	315	185 R	08/22/00
	AJ	6	6	0	2	2	7	4	08/05/03	Chen	607	88	03/18/99

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Trans Yes	lation No
	AK	0	0	4	1	7	2	7	07/20/00	PCT				
	AL	0	0	5	2	7	9	3	09/08/00	PCT				
	AM	0	1	7	8	2	1	6	10/18/01	PCT				
	AN	0	1	7	8	4	5	8	10/18/01	РСТ				
	AO	0	1	9	8	7	0	8	12/27/01	РСТ				

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FORM PTO-1449	-ATTY. DOCKET NO. 25886-0066B	SERIAL NO. 10/091,144	CONFIRM. NO. 7692
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STATEMENT	FILING DATE March 4, 2002	GROUP 1615 <i>OCI</i>	CEIVED

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EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER					ER		DATE	COUNTRY	CLASS	SUB CLASS	Transl Yes	lation No
	AP	0	2	1	7	6	9	0	02/28/02	PCT				
	ΑQ	01	0	1	5	6	9	4	03/08/01	PCT				
	AR	03	0	5	2	7	9	3	06/26/03	PCT				
	AS	03	0	6	1	6	9	6	07/31/03	РСТ				
-	AT	0	4	0	7	1	2	2	01/09/91	EP				
	AU	1	3	3	4	7	4	8	08/13/03	EP A1				
	AV	5	3	0	8	4	9	98	07/26/78	JP			Yes	
	AW	9	3	1	3	7	6	9	07/22/93	PCT				
	AX	9	7	3	2	8	8	5	09/12/97	РСТ				
	AY	9	7	4	6	2	6	2	12/11/97	PCT				
	AZ	9	9	6	7	2	4	8	12/29/99	PCT				

ВА	Barr et al., "Normal tissue Damage Following Photodynamic Therapy: Are There Biological Advantages?, Book: Photodynamic Therapy, Basic Principles and Clinical Applications, Barbara W. Henderson and Thomas J. Dougherty, (Eds.); Marcel Dekker, Inc. New York, pp. 201-216
ВВ	Beems <i>et al.</i> , "Photosensitizing properties of bacteriochlorophyllin <i>a</i> and bacteriochlorin <i>a</i> , two derivatives of bacteriochlorophyll <i>a</i> ", <i>Photochem. Photobiol.</i> , <u>46(5)</u> :639-643 (1987)
вс	Bellnier <i>et al.</i> , "Murine pharmacokinetics and antitumor efficacy of the photodynamic sensitizer 2-[1-hexyloxyethyl]-2-devinyl pyropheophorbide-a", <i>J. Photochem. Photobiol. B: Biol.</i> , <u>20</u> :55-61 (1993)
BD	Birchler et al., "Selective Targeting and Photocoagulation of Ocular Angiogenesis Mediated by a Phage-Derived Human Antibody Fragment", Nature Biotechnol., 17:984-988 (1999)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BE	Blaauwgeers et al., "Polarized Vascular Endothelial Growth Factor Secretion by Human Retinal Pigment Epithelium and Localization of Vascular Endothelial Growth Factor Receptors on the Inner Choriocapillaris", American Journal of Pathology, 155(2): 421-428 (1999)
BF	Boulton <i>et al.</i> , "VEGF localization in diabetic retinopathy", <i>Br J Ophthalmol</i> , <u>82:</u> 561-568 (1998)
BG	Brower, V., "Tumor AngiogenesisNew Drugs on the Block", <i>Nature Biotechnol.</i> , <u>17</u> :963-968 (1999)
вн	Certified English Translation of Japanese Kokai [Unexamined Patent] No. 57-185220, "Anti-Cancer Drug Having Chlorophyll Derivative Effective Component,"
ВІ	Chen et al., "New Technology for Deep Light distribution in Tissue for Phototherapy", The Cancer J., 8(2):154-163 (2002)
BJ	De Jode, et al., "A comparison of Novel Light Sources for Photodynamic Therapy", Lasers Med Sci, 12:260-268 (1997)
вк	Dougherty, T.J., "A Brief History of Clinical Photodynamic Therapy Development at Roswell Park Cancer Institute", <i>J. Clin. Laser Med. & Surg.</i> , 14(5):219-221 (1996)
BL	Dougherty, T.J., "Photosensitization of malignant tumors", Sem. Sur. Oncol., 2:24-37 (1986)
ВМ	Dougherty et al., Review "Photodynamic Therapy", J. Natl. Cancer Inst., 90(12):889-905 (1998)
BN	Dougherty <i>et al.</i> , <u>Yearly Review</u> "Photodynamic Therapy", <i>Photochem. Photobiol.</i> , <u>58(6)</u> :895-900 (1993)
ВО	Gagel, M. P., Photodynamic therapy with porphyrins (1997), available at http://www.dermatology.org/laser/pdt.html.
ВР	Gilson et al., "Therapeutic ratio of photodynamic therapy in the treatment of superficial tumours of skin and subcutaneous tissues in man", J. Cancer, 58:665-667 (1988)
BQ	Haas <i>et al.</i> , "Phototherapy of Bladder Cancer: Dose/Effect Relationships," <i>Journal of Urology</i> , <u>136</u> :525-528 (1986)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	TIEN ANY (including Author, Title, Date, Fertinent Fages, Etc.)
BR	Henderson <i>et al.</i> , "An <i>in vivo</i> quantitative structure-activity relationship for a congeneric series of pyropheophorbide derivatives as photosensitizers for photodynamic therapy", <i>Cancer Res.</i> , <u>57</u> :4000-4007 (1997)
BS	Kessel <i>et al.</i> , "Photosensitization with bacteriochlorins", <i>Photochem. Photobiol.</i> , 58(2):200-203 (1993)
ВТ	Kozyrev <i>et al.</i> , "Effect of substituents in OsO_4 reactions of metallochlorins regioselective synthesis of isobacteriochlorins and bacteriochlorins", <i>Tetrahedron Letters</i> , <u>37(22)</u> :3781-3784 (1996)
BU	Lin <i>et al.</i> , "Skin Necrosis due to Photodynamic Action of Benzoporphyrin Depends on Circulating Rather than Tissue Drug Levels: Implications for Control of Photodynamic Therapy", <i>Photochem. Photobiol.</i> , <u>68(4)</u> :575-583 (1998)
BV	Meerovich et al., "Photosensitizer for PDT based on phosphonate phthalocyanine derivative", Proc. SPIE-INT. Scc. Opt. Eng., 2924:86-90 (1996)
BW	Mew <i>et al.</i> , "Ability of Specific Monoclonal Antibodies and Conventional Antisera Conjugated to Hematoporphyrin to Label and Kill Selected Cell Lines Subsequent to Light Activation", <i>Cancer Res.</i> , <u>45</u> :4380-4386 (1985)
ВХ	Mizeret, et al., "Cylindrical Fiberoptic Light Diffuser for Medical Application", Lasers Surg. Med., 19:159-167 (1996)
ву	Pandey <i>et al.</i> , "Comparative in vivo sensitizing efficacy of porphyrin and chlorin dimers joined with ester, ether, carbon-carbon or amide bonds", <i>J. Molecular Recognition</i> , 9:118-122 (1996)
BZ	Pandey et al., "Shedding some light on tumours", Chem. Indust., 1998:739-743 (1998)
CA	Parrish, J.A., "Photobiologic Consideration in Photoradiation Therapy" <i>Porphyrin Photosensitization</i> , Kessel, D. and T.M. Dougherty (Eds.) New York: Plenum Press, 1983 pp. 91-108
СВ	Prewett <i>et al.</i> , "Antivascular Endothelial Growth Factor Receptor (Fetal Liver Kinase 1) Monoclonal Antibody Inhibits Tumor Angiogenesis and Growth of Several Mouse and Human Tumors", <i>Cancer Research</i> , <u>59:</u> 5209-5218 (1999)
CC	Rimington et al., "Preparation and photosensitizing properties of hematoporphyrin ethers", Free Rad. Res. Comms., 7(3-6):139-142 (1989)

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- TECH CENTER 1800/2000 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CD	Roy et al., "Ceramic-based nanoparticles entrapping water-insoluble photosensitizing anticancer drugs: a novel drug-carried system for photodynamic therapy", J. Am. Chem. Soc., 125(26):7860-7865 (2003)
CE	Rungta <i>et al.</i> , "Purpurinimides as photosensitizers: effect of the presence and position of the substituents in the <i>in vivo</i> photodynamic efficacy", <i>Bioorg. Medicinal Chem. Letters</i> , 10:1463-1466 (2000)
CF	Sharman <i>et al.</i> , "Novel water-soluble phthalocyanines substituted with phosphonate moieties on the benzo rings", <i>Tetrahedron Lett.</i> , <u>37(33)</u> :5831-5834 (1996)
CG	Spikes, J.D., "Porphyrins and related compounds as photodynamic sensitizers", Annals of the New York Academy of Sciences, <u>244</u> :496-508 (1975)
СН	Tomio <i>et al.</i> , "Effect of Hematoporphyrin and Red Light on AH-130 Solid Tumors in Rats", <i>ACTA Radiologica Oncol.</i> , <u>22</u> :49-53 (1983)
CI ·	Woodburn <i>et al.</i> , "Evaluation of porphyrin characteristics required for photodynamic therapy", <i>Photochem. Photobiol.</i> , <u>55(5)</u> :697-704 (1992)

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